District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy Minerals and Natural Resources Department

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-141 Revised August 24, 2018 Submit to appropriate OCD District office

Incident ID	nAPP2310024728
District RP	
Facility ID	
Application ID	

Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office

Closure Report Attachment Checklist: Each of the following items must be included in the closure report.

A scaled site and sampling diagram as described in 19.15.29.11 NMAC

must be notified 2 days prior to liner inspection)

☐ Laboratory analyses of final sampling (Note: appropriate ODC	District office must be notified 2 days prior to final sampling)
☐ Description of remediation activities	
and regulations all operators are required to report and/or file certain may endanger public health or the environment. The acceptance of a	C-141 report does not relieve the operator of responsibility for ions. The responsible party acknowledges they must substantially ditions that existed prior to the release or their final land use in
Printed Name: <u>Justin Warren</u>	Title: Vice President of Operations
Signature:	Date: 7/10/2023
email: <u>jwarren@hpcnm.com</u> Tel	lephone: _575-703-3918
OCD Only	
Received by:	Date:
	of liability should their operations have failed to adequately investigate and vater, human health, or the environment nor does not relieve the responsible r regulations.
Closure Approved by: Nelson Velez	Date:08/04/2023
Printed Name: Nelson Velez	Title:Environmental Specialist – Adv
_	

Harvard Petroleum Company, LLC

3737 Buffalo Speedway, Suite 1600 Houston, Texas 77098

Phone Number: 575-703-3918

Authorized Representative: Justin Warren Incident Number: nAPP2310024728

Harvard Petroleum – Tom Cat 16 State Facility

Oil & Produced Water Spill Clean Up Lea County, New Mexico Latitude: N 32.299038°

Longitude: W 103.685944°

Facility: Tom Cat 16 State Facility

Client Name: Harvard Petroleum Company, LLC

Inspector Name: Kevin Robinson Date: July 3, 2023

Facility and Production Well Demographics with Site Inspection

Water District #2	UNIT LETTER	SECTION	TO	TOWNSHIP RANGE COUNTY						
Roswell, NM	Н	16		23S	32E	LEA				
	LOCATION A	AND ACCESS TO	O FAC	CILITY – SE	CTION 1					
		Responsible Pa	arty:		Harvard Pe	troleum Company, LLC				
		Land Ow	ner:			Unknown				
G	PS coordinate of	oil & chloride s	spill:			N 32.299038°				
G	PS coordinate of	oil & chloride s	spill:			W 103.685944°				
Facility GPS coor	dinate productio	n well Tom Ca	t 16,			N 32.299150°				
	_	State								
Facility GPS coor	dinate productio		•			W 103.686034°				
	_	State								
Driving	directions from r	nearest city to s	spill:	•		rom the intersection of				
						in Jal, NM, travel west				
				•		VY 128. From entrance				
					• •	ed NE on lease road for				
				approximately 3.8 miles, turn left and travel						
	 			due north 1.8 miles to tank battery The spill is located 4.6 miles from the center of						
Spill p	physical location	from Highway	128:	The spill						
						3 to production facility.				
	T (C'l')	County, St		01		a County, New Mexico				
24/1	Type of facility			Onshore oil and natural gas production well.						
	t is the main acce		•			Highway 128				
	is the closest ma					ay 206 and Highway 18				
	at is the composi			Earthen Material & Calich						
V	What is the condi					Fair				
		te at the entrar				No				
		te open or lock				N/A				
	If locked, key or					N/A				
		ance GPS Latit				N 32.240786°				
		nce GPS Longit				W 103.725189°				
	ere signage at the					No N/A				
W	hat is the condit	<u>-</u>								
		Facility Elevat								
	How wa	as the spill caus	sed?							
				stora	•	ray spread over area to				
	_				the no	orth due to high winds.				

	Spill area description:	The spill area is approximately 95-feet long
		and 54-feet wide.
	Adjacent land to this facility is used for:	Open Land & Oil Production
	The terrain for this facility is:	Flat to Moderate
	Spillage direction of flow:	South
Aı	re there ANY water sources visible from the	Yes; Water well located 2,058-feet southwest
	facility?	of the spill area.
	LOCATION AND FACILITY NOTES:	None

SPILL AND SITE INFORMATION – SECTION 2

Spill Site Description

Provided below is the satellite image of the Tom Cat 16 battery located in Eddy County New Mexico. The spill area measured approximately 95-feet long and 54-feet wide and was a surface only spill, with all freestanding oil and produced water being removed after the initial spill; the spill area has been highlighted and labeled with test points. (See Example "A" Below)



EXCAVATION & REMEDIATION – SECTION 3

Excavation & Testing

The spill area was dry and free of all surface liquids. Excavation began, and approximately 3 to 6 inches of contaminated soil was removed. All soil containing TPH and chlorides exceeding State of New Mexico OCD thresholds was excavated and hauled to Ace Land Farm in Lea County New Mexico. Field testing indicated that all test areas were below State of New Mexico thresholds for TPH and chloride and (8) samples were collected and delivered to Cardinal Laboratories in Hobbs, New Mexico. 40 yards of contaminated soil was hauled to Ace Land Farm for disposal.

Certified soil analysis concluded that further excavation was required in (3) sections of the spill area. Excavation continued and approximately 6-9 inches of contaminated soil was removed and hauled to Ace Land Farm. (2) soil samples were collected and delivered to Cardinal Laboratories in Hobbs, New Mexico for testing. Soil analysis determined that all test points within the spill area contained soil with TPH and chloride below State of New Mexico thresholds. 20 additional yards of contaminated soil was hauled to Ace Land Farm for disposal.

XSOIL TESTING – SECTION 4

Certified Soil Analysis & Testing

	Table 1										
			Conf	irmation c	of Certified	l Analytica	l Results				
SAMPLE	DATE	Depth	TPH	GRO	DRO	GRO +	EXT DRO	Chloride	BTEX	Benzene	
ID			C6-C36	C6-C10	C10-	DRO	C28-C36	(mg/kg)	(mg/kg)	(mg/kg)	
			(mg/kg)	(mg/kg)	C28	C6-C28	(mg/kg)				
					(mg/kg)	(mg/kg)					
TC-1-3-6	6-5-23	0 – 6"	<10.0	<10.0	<10.0	<10.0	<10.0	48	<0.300	<0.050	
TC-2-3-6	6-5-23	0 – 6"	95.3	<10.0	80.9	80.9	14.4	528	<0.300	<0.050	
TC-3-3-6	6-5-23	0 – 6"	16.5	<10.0	16.5	16.5	<10.0	832	<0.300	<0.050	
TC-4-3-6	6-5-23	0 – 6"	932	<10.0	743	743	189	672	<0.300	<0.050	
TC-5-3-6	6-5-23	0 – 6"	<10.0	<10.0	<10.0	<10.0	<10.0	112	<0.300	<0.050	
TC-6-3-6	6-5-23	0 – 6"	<10.0	<10.0	<10.0	<10.0	<10.0	32	<0.300	<0.050	
TC-7-3-6	6-5-23	0 – 6"	20.6	<10.0	20.6	20.6	<10.0	416	<0.300	<0.050	
TC-8-3-6	6-5-23	0 – 6"	272	<10.0	231	231	41	240	<0.300	<0.050	
TC-3-6-9	6-26-	0 – 9"	60.9	<10.0	60.9	60.9	<10.0	384	<0.300	<0.050	
	23										
TC-4-6-9	6-26-	0 – 9"	71	<10.0	59.5	59.5	11.5	240	<0.300	<0.050	
	23										
TC-8-6-9	6-26-	0 – 9"	85.1	<10.0	66.5	66.5	18.6	304	<0.300	<0.050	
	23										

BACKFILL AND CLEAN UP - SECTION 5

Backfill and Cleanup:

60 yards of native soil was transported to former spill site and used for backfill. The excavated area was backfilled and leveled to resemble the are prior to the spill. No excess native soil was stockpiled and no contaminated soil was left on site after remediation.

TOM CAT 16-2 REMEDIATION PHOTOS

SPILL PHOTO #1 – Before Remediation:











FINAL REMEDIATION PHOTO #2:



Conclusion:

- All heavy TPH and chloride contaminates exceeding State of New Mexico requirements established with the requirements of 19.15.29 NMAC, have been remediated.
- All contaminated soil excavated was not stored at the facility and was hauled to Gandy Marley, a licensed soil disposal for the State of New Mexico.
- No backfill caliche or gravel was left on site; all material delivered to the spill area was properly used for the project.
- No equipment was left on site; all trucks, backhoes, and loaders were picked up and removed.
- The flow-line oil spill has been repaired and the area remediated to (SLO) specifications.

Certified Lab Analysis:

Attachment #1 & #2

Certified Lab Analysis:

Cardinal Laboratories 101 E. Maryland Street Hobbs, New Mexico 88240

PH: 575-393-2326

Contaminated Soil Disposal

Lazy Ace Land Farm Eunice, New Mexico Danny Berry Owner

PH: 575-369-5266

Trucking (Caliche & Disposal)

Republic Backhoe service, LLC 47 E Dickens Road Lovington, NM 88260

PH: 575-631-0131

CONFIRMATION OF REMEDIATION COMPLETION

This site has been remediated using the standards and requirements established within the guidelines of the State of New Mexico Environmental Division as pursuant to the Conditional Reinstatement Lease Agreement.

All violations listed within the lease agreement have been remediated utilizing the soil thresholds established within *Table 1 of 19.15.29 NMAC*.

COMM Engineering is a licensed and registered environmental company working in conjunction with Harvard Petroleum Company, LLC whom is the agreed lease owner of oil and gas production sites listed within the SLO as the agreed company of record.

This remediation record will be kept at the office for a minimum of five (5) years.

Remediation and delineation completed on July 3, 2023. Inspected, sampled, surveyed, and remediation performed by:

Signature

Kevin L. Robinson, CESCO, ESP-E, FLIR1, NORM CERTIFIED

Devin & Romson

Field Inspector



June 08, 2023

KEVIN ROBINSON

COMM ENGINEERING

1319 W. PINHOOK, SUITE 400

LAFAYETTE, LA 70503

RE: TOM CAT 52

Enclosed are the results of analyses for samples received by the laboratory on 06/05/23 9:03.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab accred certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2 Haloacetic Acids (HAA-5)
Method EPA 524.2 Total Trihalomethanes (TTHM)
Method EPA 524.4 Regulated VOCs (V1, V2, V3)

Celey D. Keene

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

COMM ENGINEERING KEVIN ROBINSON 1319 W. PINHOOK, SUITE 400 LAFAYETTE LA, 70503

Fax To:

Received: 06/05/2023 Reported: 06/08/2023

Project Name: TOM CAT 52 Project Number: NOT GIVEN Project Location: **EUNICE NM**

Sampling Date: 06/04/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker

Sample ID: TC - 1 - 3 - 6 (H232821-01)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/06/2023	ND	1.91	95.3	2.00	19.3	
Toluene*	<0.050	0.050	06/06/2023	ND	1.96	98.2	2.00	19.4	
Ethylbenzene*	<0.050	0.050	06/06/2023	ND	2.04	102	2.00	18.8	
Total Xylenes*	<0.150	0.150	06/06/2023	ND	6.02	100	6.00	19.2	
Total BTEX	<0.300	0.300	06/06/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	06/06/2023	ND	416	104	400	7.41	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/05/2023	ND	191	95.4	200	8.18	
DRO >C10-C28*	<10.0	10.0	06/05/2023	ND	183	91.4	200	4.11	
EXT DRO >C28-C36	<10.0	10.0	06/05/2023	ND					
Surrogate: 1-Chlorooctane	96.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	108	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keene



Analytical Results For:

COMM ENGINEERING KEVIN ROBINSON 1319 W. PINHOOK, SUITE 400 LAFAYETTE LA, 70503 Fax To:

Received: 06/05/2023 Reported:

06/08/2023 TOM CAT 52

Project Name: Project Number: NOT GIVEN Project Location: **EUNICE NM** Sampling Date: 06/04/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker

Sample ID: TC - 2 - 3 - 6 (H232821-02)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/06/2023	ND	1.91	95.3	2.00	19.3	
Toluene*	<0.050	0.050	06/06/2023	ND	1.96	98.2	2.00	19.4	
Ethylbenzene*	<0.050	0.050	06/06/2023	ND	2.04	102	2.00	18.8	
Total Xylenes*	<0.150	0.150	06/06/2023	ND	6.02	100	6.00	19.2	
Total BTEX	<0.300	0.300	06/06/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	528	16.0	06/06/2023	ND	416	104	400	7.41	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/05/2023	ND	191	95.4	200	8.18	
DRO >C10-C28*	80.9	10.0	06/05/2023	ND	183	91.4	200	4.11	
EXT DRO >C28-C36	14.4	10.0	06/05/2023	ND					
Surrogate: 1-Chlorooctane	73.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	84.4	% 49.1-14	'8						

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Celeg D. Keene



Analytical Results For:

COMM ENGINEERING **KEVIN ROBINSON** 1319 W. PINHOOK, SUITE 400 LAFAYETTE LA, 70503 Fax To:

Received: 06/05/2023 Reported: 06/08/2023

Project Name: TOM CAT 52 Project Number: NOT GIVEN Project Location: **EUNICE NM**

Sampling Date: 06/04/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker

Sample ID: TC - 3 - 3 - 6 (H232821-03)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/06/2023	ND	1.91	95.3	2.00	19.3	
Toluene*	<0.050	0.050	06/06/2023	ND	1.96	98.2	2.00	19.4	
Ethylbenzene*	<0.050	0.050	06/06/2023	ND	2.04	102	2.00	18.8	
Total Xylenes*	<0.150	0.150	06/06/2023	ND	6.02	100	6.00	19.2	
Total BTEX	<0.300	0.300	06/06/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	'kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	832	16.0	06/06/2023	ND	416	104	400	7.41	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/05/2023	ND	191	95.4	200	8.18	
DRO >C10-C28*	16.5	10.0	06/05/2023	ND	183	91.4	200	4.11	
EXT DRO >C28-C36	<10.0	10.0	06/05/2023	ND					
Surrogate: 1-Chlorooctane	83.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	93.0	% 49.1-14	8						

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Celey D. Keine



Analytical Results For:

COMM ENGINEERING **KEVIN ROBINSON** 1319 W. PINHOOK, SUITE 400 LAFAYETTE LA, 70503

Fax To:

Received: 06/05/2023 Reported:

06/08/2023 TOM CAT 52

Project Name: Project Number: NOT GIVEN Project Location: **EUNICE NM** Sampling Date: 06/04/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker

Sample ID: TC - 4 - 3 - 6 (H232821-04)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/06/2023	ND	1.91	95.3	2.00	19.3	
Toluene*	<0.050	0.050	06/06/2023	ND	1.96	98.2	2.00	19.4	
Ethylbenzene*	<0.050	0.050	06/06/2023	ND	2.04	102	2.00	18.8	
Total Xylenes*	<0.150	0.150	06/06/2023	ND	6.02	100	6.00	19.2	
Total BTEX	<0.300	0.300	06/06/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	109 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	672	16.0	06/06/2023	ND	416	104	400	7.41	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/05/2023	ND	191	95.4	200	8.18	
DRO >C10-C28*	743	10.0	06/05/2023	ND	183	91.4	200	4.11	
EXT DRO >C28-C36	189	10.0	06/05/2023	ND					
Surrogate: 1-Chlorooctane	77.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	92.8	% 49.1-14	8						

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Celey D. Keine



Analytical Results For:

COMM ENGINEERING **KEVIN ROBINSON** 1319 W. PINHOOK, SUITE 400 LAFAYETTE LA, 70503

Fax To:

Received: 06/05/2023 Reported:

06/08/2023 TOM CAT 52

Project Number: NOT GIVEN Project Location: **EUNICE NM** Sampling Date: 06/04/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker

Sample ID: TC - 5 - 3 - 6 (H232821-05)

Project Name:

BTEX 8021B	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/06/2023	ND	1.91	95.3	2.00	19.3	
Toluene*	<0.050	0.050	06/06/2023	ND	1.96	98.2	2.00	19.4	
Ethylbenzene*	<0.050	0.050	06/06/2023	ND	2.04	102	2.00	18.8	
Total Xylenes*	<0.150	0.150	06/06/2023	ND	6.02	100	6.00	19.2	
Total BTEX	<0.300	0.300	06/06/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 71.5-13	4						
Chloride, SM4500CI-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	06/06/2023	ND	416	104	400	7.41	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/05/2023	ND	191	95.4	200	8.18	
DRO >C10-C28*	<10.0	10.0	06/05/2023	ND	183	91.4	200	4.11	
EXT DRO >C28-C36	<10.0	10.0	06/05/2023	ND					
Surrogate: 1-Chlorooctane	81.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	86.2	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keene



Analytical Results For:

COMM ENGINEERING KEVIN ROBINSON 1319 W. PINHOOK, SUITE 400 LAFAYETTE LA, 70503 Fax To:

Received: 06/05/2023 Reported:

06/08/2023 TOM CAT 52

Project Number: NOT GIVEN Project Location: **EUNICE NM** Sampling Date: 06/04/2023

Sampling Type: Soil Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker

Sample ID: TC - 6 - 3 - 6 (H232821-06)

Project Name:

BTEX 8021B	mg,	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/06/2023	ND	1.79	89.6	2.00	7.19	
Toluene*	<0.050	0.050	06/06/2023	ND	1.84	91.9	2.00	2.75	
Ethylbenzene*	<0.050	0.050	06/06/2023	ND	1.90	94.9	2.00	3.55	
Total Xylenes*	<0.150	0.150	06/06/2023	ND	5.63	93.9	6.00	3.30	
Total BTEX	<0.300	0.300	06/06/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	113	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	06/06/2023	ND	416	104	400	7.41	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/05/2023	ND	191	95.4	200	8.18	
DRO >C10-C28*	<10.0	10.0	06/05/2023	ND	183	91.4	200	4.11	
EXT DRO >C28-C36	<10.0	10.0	06/05/2023	ND					
Surrogate: 1-Chlorooctane	76.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	80.3	% 49.1-14	8						

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Celeg D. Keene



Analytical Results For:

COMM ENGINEERING KEVIN ROBINSON 1319 W. PINHOOK, SUITE 400 LAFAYETTE LA, 70503 Fax To:

Received: 06/05/2023 Reported:

06/08/2023

Project Name: TOM CAT 52 Project Number: NOT GIVEN Project Location: **EUNICE NM**

Sampling Date: 06/04/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker

Sample ID: TC - 7 - 3 - 6 (H232821-07)

BTEX 8021B	mg,	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/06/2023	ND	1.79	89.6	2.00	7.19	
Toluene*	<0.050	0.050	06/06/2023	ND	1.84	91.9	2.00	2.75	
Ethylbenzene*	<0.050	0.050	06/06/2023	ND	1.90	94.9	2.00	3.55	
Total Xylenes*	<0.150	0.150	06/06/2023	ND	5.63	93.9	6.00	3.30	
Total BTEX	<0.300	0.300	06/06/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	112 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	416	16.0	06/06/2023	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/05/2023	ND	191	95.4	200	8.18	
DRO >C10-C28*	20.6	10.0	06/05/2023	ND	183	91.4	200	4.11	
EXT DRO >C28-C36	<10.0	10.0	06/05/2023	ND					
Surrogate: 1-Chlorooctane	99.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	109	% 49.1-14	8						

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Analytical Results For:

COMM ENGINEERING KEVIN ROBINSON 1319 W. PINHOOK, SUITE 400 LAFAYETTE LA, 70503 Fax To:

Received: 06/05/2023 Reported: 06/08/2023

Project Name: TOM CAT 52
Project Number: NOT GIVEN
Project Location: EUNICE NM

Sampling Date: 06/04/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: TC - 8 - 3 - 6 (H232821-08)

BTEX 8021B	mg/	kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/06/2023	ND	1.79	89.6	2.00	7.19	
Toluene*	<0.050	0.050	06/06/2023	ND	1.84	91.9	2.00	2.75	
Ethylbenzene*	<0.050	0.050	06/06/2023	ND	1.90	94.9	2.00	3.55	
Total Xylenes*	<0.150	0.150	06/06/2023	ND	5.63	93.9	6.00	3.30	
Total BTEX	<0.300	0.300	06/06/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	116 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	06/06/2023	ND	432	108	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/05/2023	ND	191	95.4	200	8.18	
DRO >C10-C28*	231	10.0	06/05/2023	ND	183	91.4	200	4.11	
EXT DRO >C28-C36	41.0	10.0	06/05/2023	ND					
Surrogate: 1-Chlorooctane	79.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	91.8	% 49.1-14	8						

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Notes and Definitions

QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch
	accepted based on LCS and/or LCSD recovery and/or RPD values.

BS-3 Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

QR-04

** Samples not received at proper temperature of 6°C or below.

*** Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

The RPD for the BS/BSD was outside of historical limits.

Samples reported on an as received basis (wet) unless otherwise noted on report

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Page 11 of 11

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476

Company Name:	mm engheer	my	BILL T	9	ANALYSIS REQUEST						
Project Manager:	ovin Mosin	son	P.O. #:		N.	ANALIS	NEQUES	1			
Address: (319	wa pinhoute		Company:		te a			-			
City: Afer	the State: CA	- Zip:	Attn:		0						
Prione #:	Fax #:		Address:		2						
Project #:	Project Owne	r:	City:		2						
Project Name: 10	mcat SZ		-		Ø						
Project Location:			State: Zip: Phone #:		7						
Sampler Name:	Resince				13	*					
FOR LAB USE ONLY		MATRIX	Fax #: PRESERV. SA	MPLING	.8 .						
2 TC- 3 TC- 4 TC- 5 TC- 7 TC- 8 TC	Sample I.D. 1-3-6 -2-3-6 -3-3-6 -4-3-6 -5-3-6 -7-3-8 -8-3-6	(G)RAB OR (C)OMP #CONTAINERS GROUNDWATER WASTEWATER OIL SLUDGE	6/4/	3 1015	YXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX						
vice. In no event shall Cardinal be liable	Cardinal's liability and client's exclusive remedy for any gligence and any other cause whatsoever shall be de e for incidental or consequental damages, including wanted to the performance of services hereunder by Car	the same and an armining and	received by Cardinal Within 30 days aff	er completion of the ap	plicable						
elinguished By: Lugar Solelinguished By:	Dafe: /2.5 Time: 3 A Date:	dinal, regardless of whether such claim in Received By:	s based upon any of the eb. ** stated of	Verbal Result	t:	o Add'l Phone provide Email add	#: ress:				
Delivered By: (Circle One)	Time: Observed Temp. °C	Sample Condition	ON CHECKED BY	-							
ampler - UPS - Bus - Otl			CHECKED BY: (Initials)	Turnaround Ti	Rush	L Cool	ria (only) Sample C Intact Observe	ondition ed Temp. °C			



June 26, 2023

KEVIN ROBINSON

COMM ENGINEERING

1319 W. PINHOOK, SUITE 400

LAFAYETTE, LA 70503

RE: TOM CAT

Enclosed are the results of analyses for samples received by the laboratory on 06/20/23 10:30.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab_accred_certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2 Haloacetic Acids (HAA-5)
Method EPA 524.2 Total Trihalomethanes (TTHM)
Method EPA 524.4 Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celey D. Keene

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

COMM ENGINEERING KEVIN ROBINSON 1319 W. PINHOOK, SUITE 400 LAFAYETTE LA, 70503

Fax To:

Received: 06/20/2023 Sampling Date: 06/19/2023 Reported: 06/26/2023 Sampling Type: Soil

Project Name: TOM CAT Sampling Condition: Cool & Intact Project Number: NOT GIVEN Sample Received By: Tamara Oldaker

Project Location: EAST OF CARLSBAD NM

Sample ID: TC - 3 - 6 -9 (H233180-01)

BTEX 8021B	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/22/2023	ND	2.17	109	2.00	2.83	
Toluene*	<0.050	0.050	06/22/2023	ND	2.14	107	2.00	2.56	
Ethylbenzene*	<0.050	0.050	06/22/2023	ND	2.10	105	2.00	2.97	
Total Xylenes*	<0.150	0.150	06/22/2023	ND	6.39	106	6.00	3.28	
Total BTEX	<0.300	0.300	06/22/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 71.5-13	4						
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	384	16.0	06/21/2023	ND	400	100	400	3.92	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/21/2023	ND	172	86.1	200	0.174	
DRO >C10-C28*	60.9	10.0	06/21/2023	ND	174	87.1	200	0.969	
EXT DRO >C28-C36	<10.0	10.0	06/21/2023	ND					
Surrogate: 1-Chlorooctane	119	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	125	% 49.1-14	8						

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Celey D. Keine



Analytical Results For:

COMM ENGINEERING **KEVIN ROBINSON** 1319 W. PINHOOK, SUITE 400 LAFAYETTE LA, 70503 Fax To:

Received:

Sampling Date:

06/19/2023

Reported: Project Name: 06/20/2023 06/26/2023 TOM CAT

Sampling Type:

Soil Cool & Intact

Project Number:

NOT GIVEN

Sampling Condition: Sample Received By:

Tamara Oldaker

Project Location:

EAST OF CARLSBAD NM

Sample ID: TC - 4 - 6 -9 (H233180-02)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/22/2023	ND	2.17	109	2.00	2.83	
Toluene*	<0.050	0.050	06/22/2023	ND	2.14	107	2.00	2.56	
Ethylbenzene*	<0.050	0.050	06/22/2023	ND	2.10	105	2.00	2.97	
Total Xylenes*	<0.150	0.150	06/22/2023	ND	6.39	106	6.00	3.28	
Total BTEX	<0.300	0.300	06/22/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 9	71.5-13	4						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	06/21/2023	ND	400	100	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/21/2023	ND	172	86.1	200	0.174	
DRO >C10-C28*	59.5	10.0	06/21/2023	ND	174	87.1	200	0.969	
EXT DRO >C28-C36	11.5	10.0	06/21/2023	ND					
Surrogate: 1-Chlorooctane	114 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	121 9	% 49.1-14	8						

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Analytical Results For:

COMM ENGINEERING KEVIN ROBINSON 1319 W. PINHOOK, SUITE 400 LAFAYETTE LA, 70503 Fax To:

Received: 06/20/2023 Sampling Date: 06/19/2023

Reported: 06/26/2023 Sampling Type: Soil
Project Name: TOM CAT Sampling Condition: Coo

Project Name: TOM CAT Sampling Condition: Cool & Intact
Project Number: NOT GIVEN Sample Received By: Tamara Oldaker

Project Location: EAST OF CARLSBAD NM

Sample ID: TC - 8 - 6 -9 (H233180-03)

BTEX 8021B	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/22/2023	ND	2.17	109	2.00	2.83	
Toluene*	<0.050	0.050	06/22/2023	ND	2.14	107	2.00	2.56	
Ethylbenzene*	<0.050	0.050	06/22/2023	ND	2.10	105	2.00	2.97	
Total Xylenes*	<0.150	0.150	06/22/2023	ND	6.39	106	6.00	3.28	
Total BTEX	<0.300	0.300	06/22/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	06/21/2023	ND	400	100	400	3.92	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/21/2023	ND	172	86.1	200	0.174	
DRO >C10-C28*	66.5	10.0	06/21/2023	ND	174	87.1	200	0.969	
EXT DRO >C28-C36	18.6	10.0	06/21/2023	ND					
Surrogate: 1-Chlorooctane	118	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	129	% 49.1-14	8						

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Celey D. Keine



Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

** Samples not received at proper temperature of 6°C or below.

*** Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

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7/10/2023 2:54:46 PM

Received by OCD:

Sampler - UPS - Bus - Other:

Page 6 of 6

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Cool Intact

☐ Yes ☐ Yes
☐ Nc ☐ No

Corrected Temp. °C

101 East Marland, Hobbs, NM 88240

Corrected Temp. °C 3,9

	(575) 393-2326 FAX (575) 39	3-2476																		
Company Name	: Comm Engir	reen	11	ng					BI	LL TO				ANA	LYSIS	REC	QUEST	T 12 - 12		
Project Manage				/			P.C). #:												
Address: /3/	19 W. Anhoole	Ste	4	00			Cor	mpan	y: S	lemo	,	N	* × ;							
City: LAfe	well State: L	A Zip	: "	7050	3		Attı	n:		/		03								
Phone #: 40	\$820-2069 Fax#:						Add	dress	:			3								
Project #:	Project O	wner:					City	y:				te			1			20		
Project Name:	Tom Cat	,					Sta	te:		Zp:		8						2		
Project Location	n: EAST OF Cares	sud,	A	MA			Pho	one #	:			-0								
Sampler Name:	K. Robinsu						Fax	-				19								
FOR LAB USE ONLY		0.			MATR	IX		PRES	ERV.	SAME	PLING	ò								
		OMF	S	E ~								1								
Lab I.D.	Sample I.D.	R (C)	NER	WAT				ہے نیا				2								
Lab I.D.	Cample i.b.	AB O	NTAI	UND		GE	2	/BAS	۳. 			2								
H233180		(G)RAB OR (C)OMP	# CONTAINERS	GROUNDWATER	SOIL	SLUDGE	OTH	ACID/BASE:	OTHER	DATE	TIME	H								
1	TC-3-6-9 TC-4-6-9 TC-8-6-9		1		X					6-19-23	SUM	X								
Z	TC-4-6-9				X					6-19-23	8001	∞								\sqcup
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analyses. All claims including	d Damages. Cardinal's liability and client's exclusive reme ng those for negligence and any other cause whatsoever s	hall be deemed	d waive	ed unless	made in wr	ting and	receiv	ed by Ca	ırdinal v	within 30 days after	r completion of th	ne applicable								
affiliates or successors arisir	ardinal be liable for incidental or consequental damages, in any out of or related to the performance of services hereund	der by Cardinal,	regar	rdless of w	hether suc						asons or otherwis	se.								
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Delivered By: (C	ircle One) Observed Temp	.°C 4,	5		nple Co		on	CH		(ED BY:	Turnaroun	d Time:	Standard Rush		Bacter Cool I			e Conditi		

(Initials)

Thermometer ID #113

Correction Factor -0.6°C

Yes Yes
No No

Cool Intact

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720

District II 811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720

District III 1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. **Santa Fe, NM 87505**

CONDITIONS

Action 238175

CONDITIONS

Operator:	OGRID:
HARVARD PETROLEUM COMPANY, LLC	10155
P.O. Box 936	Action Number:
Roswell, NM 88202	238175
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
nvelez	None	8/4/2023